

## NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

### UIC GENERAL PERMIT GU07RL001 ID# \_\_\_\_\_ LONG TERM REMEDIATION – More than six months

#### AUTHORIZATION TO INJECT

In compliance with the provisions of the Nevada Revised Statutes (NRS) and the Nevada Underground Injection Control (UIC) Regulations, Nevada Administrative Code (NAC) 445A.810 through 445A.925, eligible applicants are authorized to inject the following compounds into Class V injection wells in accordance with limitations, requirements and other conditions set forth in Parts I and II hereof.

This General Permit is for remediation projects lasting more than six months and allows injection of only those materials identified below.

Well Owner Name: _____	
Address: _____	
Facility/Site Name: _____	
Facility Address: _____	
Legal Description: _____	Facility CA ID: _____
Operator Name & Address: _____	
Authorized injection wells: _____	
Authorized rates/volumes: _____	
Required for Quarterly sampling: <input checked="" type="checkbox"/> Per approved State or County Corrective Action Workplan	
<input type="checkbox"/> See UIC permit issuance cover letter	
<input type="checkbox"/> Additional UIC Sampling required: _____	

Application for coverage under this General Permit will be allowed if the following materials are the only materials used at a specific project site:

- ☐ Low-percentage solution of hydrogen peroxide ( $H_2O_2$ ). Injection shall not exceed 350 gallons/well per month;
- ☐ Potassium and sodium permanganate;
- ☐ Ozone;
- ☐ Polysulfide;
- ☐ Nutrients: nitrate, ammonia, phosphate, vitamins;
- ☐ Carbon sources/electron donors: acetate, lactate, glucose, complex sugars
- ☐ Oxygen infusers;
- ☐ Chemical oxidation compounds;
- ☐ Hydrogen releasing compounds

Modifications to the above requirements must be pre-approved by the UIC Program pursuant to Part I.A.10. The Permittee shall comply with all provisions of this permit and any letter of authorization issued pursuant to it.

This permit was issued on **June 1, 2007**. Effective date for the project above is: \_\_\_\_\_  
This permit and any letter of authorization issued under it shall expire at midnight 5 years from the date above.

\_\_\_\_\_  
UIC Staff  
Bureau of Water Pollution Control

Signed this \_\_\_\_\_ day of \_\_\_\_\_.

## **PART I**

### **A. LIMITATIONS, MONITORING AND OTHER REQUIREMENTS**

**Note: Applicants using any of these materials should apply under the general permit.** Subject to NAC 445A.894, the director may require any person authorized to inject by a general permit to apply for and obtain an individual permit. **Upon review of the facts, if the UIC program staff is concerned about any aspects of the project (such as of a public water system supply well or domestic well), the applicant may be required to obtain a UNEV permit and application will be transferred to an UIC UNEV permit.** Applicants injecting other chemicals are required to obtain an UIC UNEV Permit and may not apply for this UIC General Permit. If an individual permit is issued to a person holding a general permit for the same activity and discharge points, the general permit is automatically terminated on the effective date of the individual permit.

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the Permittee is authorized to inject the compounds per approved rates specified into the authorized injection wells identified on page 1.
2. **Injection shall not occur in a well that has had free product (LNAPL and/or DNAPL) during the previous 3 months.**
3. Injection of the compounds must prevent introduction of any foreign materials or unapproved additives to the zone for injection. The use of any other additive(s) requires written authorization from the Nevada Division of Environmental Protection (the Division) prior to injection. Sodium thiosulfate to dechlorinate potable water may be used for injection under this general permit.
4. Injection practices shall not cause injectate and/or groundwater to surface at or near the injection points, nor cause any physical, biological, or chemical degradation of groundwater pursuant to the UIC regulations. Discharges to the surface are not allowed under this permit. Injection practices shall not cause objectionable odors or any surface hazards.
5. The injectate and groundwater shall be limited and monitored by the Permittee and reported to the proper programs pursuant to this permit.
  - a. Only the approved compounds approved on page 1 shall be injected, and only in the volumes and injection rates authorized. All facilities encompassed by this permit shall conform to the plans and specifications filed with the Division and shall be maintained in good working order at all times.
  - b. Monitoring shall be conducted pursuant to 1) the approved corrective action workplan and 2) any additional UIC monitoring requirements identified on Page 1 of this permit.
  - c. A laboratory certified by the State of Nevada must perform analyses. Testing methods for constituents must be EPA or Division approved. It must be clearly stated on all reports which analyses were performed.
  - d. The analytical method detection limits for all chemical constituents must be at least as low as primary or secondary drinking water standards, when applicable.
  - e. The Division may decrease or increase the monitoring of any parameter for good cause.

**6. Monitoring and Reporting Requirements:**

The Permittee shall submit **quarterly reports in accordance with Section 7 for UIC activities in 1) the workplan report to the official corrective action program, and 2) a maximum two-page UIC summary report submitted to the UIC Program** on a continuous basis, **whether actively injecting or not**, which contains the following data:

- a. The UIC Summary Report shall be no longer than two (2) pages containing:
  1. UIC General Permit and Unique ID number.
  2. Reporting period: quarter and year; and date submitted.
  3. Individual/company reporting.
  4. Project Name and address.
  5. Corrective Action Case Officer name and Facility ID #.
  6. Identify which wells were used for injection, and injection rate, volume, date, and time, and concentration of the substance injected; or identify no injection occurred.
  7. Is Free Product Present On-site?
  8. Brief summary detailing normal and any unusual activities.
  9. Name, title and signature of authorized reporting individual.
- b. The following shall appear in each Corrective Action (CA) Workplan Report
  1. The UIC General Permit and Unique ID number.
  2. The results of any chemical analyses with copies of the original signed laboratory reports as required by either this permit on page 1, or the CA Workplan.
  3. For each injection event in the reporting period document Injection Rate, Volume, Date, and Time, and concentration of the chemical injected.
  4. Water level and contour map illustrating groundwater gradient and flow direction.
  5. Narrative report of injection activities for that reporting period. The report shall include, but not be limited to, any problems encountered with the injection, the results of any tests performed during that period, and any changes noted to the groundwater. If no injection has occurred, report the non-injection status and the reason.
  6. And all other items required by the currently approved workplan.
7. Monitoring results and other requirements obtained during the previous reporting period, whether injection has occurred or not, shall be summarized for each month and reported **no later than 45 days** following the end of the reporting period.

**Signed copies of only the two-page UIC Summary Report** shall be submitted to the UIC Compliance Coordinator at the following address:

Attn: UIC Compliance Coordinator  
Division of Environmental Protection  
Bureau of Water Pollution Control  
901 South Stewart Street, Suite 4001  
Carson City, Nevada 89701

Note: CA Workplan Reports shall be reported in accordance with the Workplan and Case Officer.

8. If, during operation of this facility, the Permittee or their representatives become aware of any condition, which degrades the quality of the aquifer (outside of the treatment zone for injection), injection shall cease immediately and the UIC Program shall be notified pursuant to Part II.B.2.
9. Monitoring and system management shall continue for a period of not less than 1-year following remedial system shutdown approval. **Decisions regarding no further action for the Site after monitoring for one (1) year per NAC 459.9979 or NAC 445A.22745 will be made by the Bureau of Corrective Actions or state-authorized county programs.**

A request may be submitted to the UIC program to cease reporting during the 1-year monitoring period, or to cancel the UIC permit. Permittee must notify the UIC Program in writing of this request; and for cancellation, must indicate their understanding of the consequences of cancellation prior to receiving final closure approval. Following an evaluation by the UIC Program, the Permittee will be notified in writing granting cancellation, or denial of cancellation with rationale for such action. **Requests for cancellation must contain: 1) Either certification of well abandonment OR written confirmation from regulatory agency for continued use as monitoring wells on a well by well basis, 2) final UIC monitoring report, and 3) any Affidavits not already on file in UIC permit. Any wells not needed for monitoring are required to be plugged prior to UIC permit cancellation.**

10. The Permittee shall operate and maintain the injection per established procedures and as approved by the Division. Any modification to the injection practices which is not approved on page 1 of this permit requires submission of changes and re-issuance of this permit by UIC Program prior to implementation.
11. Nothing in this authorization shall be construed to eliminate the responsibility for remediation of this area. Remediation shall be accomplished in accordance with plans approved by the Bureau of Corrective Actions, or other State-approved corrective action program.
12. All facilities encompassed by this permit shall conform to the plans and specifications filed with the UIC Program and shall be maintained in good working order at all times.
13. The Permittee shall submit the annual review and services fee in accordance with NAC 445A.872 starting July 1st of the year immediately following permit issuance and every year thereafter until the permit is terminated.
14. The Permittee shall comply with all provisions of the UIC regulations, NAC 445A.810 through 445A.925, and all pertinent laws and regulations. Nothing in this permit relieves the Permittee from responsibilities, liabilities or penalties established by any other state, federal or local jurisdiction.
15. Upon completion of the remediation project, all wells shall be abandoned pursuant to current Division of Water Resources (DWR) regulations (NAC 534) and by UIC regulations by filling them with cement grout from total depth to land surface. A driller licensed in the State of Nevada will perform all abandonment work.

## **B. SCHEDULE OF COMPLIANCE**

1. Any items listed in the UIC General Permit issuance letter as required.
2. The Permittee shall achieve compliance with the conditions, limitations and requirements of the permit at the commencement of relevant activity.

## **PART II**

### **A. RECORDKEEPING AND OTHER MONITORING REQUIREMENTS**

#### **1. Sampling and Test Procedures**

Samples and measurements taken as required herein shall be representative of the volume and/or nature of the subject of interest. Test Procedures for the analyses of required constituents shall comply with applicable analytical methods cited and described in Tables IA - IE of 40 CFR part 136 or in Appendix III of 40 CFR part 261 unless the Administrator approves other procedures. A laboratory certified by the State of Nevada must perform all analyses conducted pursuant to permit requirements.

#### **2. Recording of Results**

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

- a. chain-of-custody sheets with the exact place, date, and time of sampling;
- b. the dates the analyses were performed;
- c. the person(s) who performed the analyses;
- d. the analytical techniques or methods used;
- e. the results of all required analyses;
- f. the precision and accuracy of the analytical data; and
- g. raw laboratory data result sheets.

#### **3. Additional Monitoring by Permittee**

If the Permittee monitors any constituent at the location(s) designated herein more frequently than required by this permit, or monitors additional constituents other than those required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be made available to the Division.

#### **4. Records Retention**

All records and information resulting from the monitoring activities required by this permit, including all records and analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation, **shall be retained for a minimum of three (3) years**, or longer if required by the Administrator.

#### **5. Modification of Monitoring Frequency, Location and Sample Type**

After considering monitoring data, discharge flow or receiving water conditions, the Division may, for just cause, modify the monitoring frequency, location and/or sample type by issuing a Notice or an Administrative Order to the Permittee.

### **B. MANAGEMENT REQUIREMENTS**

#### **1. Change in Effluents or Discharge**

All effluents or discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any constituent identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased effluents or discharges must be reported by submission of a new application or, if such changes will not violate the limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any constituents not previously limited.

## 2. Noncompliance Notification

If, for any reason, the Permittee does not comply with or will be unable to comply with the conditions, requirements and limitations specified in this permit, the Permittee shall provide the Administrator with the following information, in writing, within five (5) days of becoming aware of such conditions:

- a. A description of the noncompliance or violation.
- b. The period of noncompliance, including exact dates and times, or if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.
- c. Notification shall be provided verbally as soon as possible but not later than the end of the first working day after learning of the violation, and in writing within five days of becoming aware of such conditions.

## 3. Facilities Operation

The Permittee shall at all times maintain in good working order and operate as efficiently as possible, all treatment or control facilities, devices or systems installed or used by the Permittee to achieve compliance with the terms and conditions of this permit.

## 4. Adverse Impact

The Permittee shall take all reasonable steps, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying effluent or discharge, to minimize any adverse impact to waters of the State resulting from noncompliance with any limitations specified in this permit.

## 5. Bypassing

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited except where unavoidable to prevent loss of life or severe property damage. The Division will have the final authority in the determination of whether a discharge is deemed unavoidable. The Permittee shall promptly notify the Administrator in writing, of each such diversion or bypass, in accordance with the procedure specified in Part II.A.2 above.

# C. RESPONSIBILITIES

## 1. Right of Entry

Pursuant to NRS 445A.655, the Permittee shall allow the Administrator and/or his authorized representatives, upon the presentation of credentials:

- a. To enter upon the Permittee's premises where a source is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to, and to copy any records required to be kept under the terms and conditions of this permit;
- c. To inspect any monitoring equipment or monitoring method required in this permit; and
- d. To perform any necessary sampling to determine compliance with this permit or to sample any effluent or discharge.

## 2. Transfer of Ownership or Control

In the event of any change in ownership or control, the Permittee shall notify the succeeding owner of the existence of this permit, in writing, at the earliest possible date to allow sufficient time for the succeeding owner to demonstrate financial responsibility to the Division within 30 days prior to transfer of ownership. The letter shall include the date agreed upon by both parties for the transfer of ownership. A copy of the letter shall be forwarded to the Administrator. The Administrator of the Division of Environmental Protection shall approve all transfers of permits. The Administrator may require modification, or revocation with subsequent reissuance of the permit, to change the name of

the new Permittee and incorporate additional requirements as deemed necessary due to any changes made to the injection wells or system by the new Permittee.

3. Availability of Reports

Except for data determined to be confidential under NRS 445A.665, all reports prepared in accordance with the terms of this permit shall be available for public inspection. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445A.710.

4. Permit Modification, Suspension or Revocation

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the effluent or discharge.

5. Civil and Criminal Liability

- a. Nothing in this permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance.
- b. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.
- c. The issuance of this permit does not convey any property rights, in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, State or local laws or regulations.